



# QP539

## eVTOL UAV

Medium-sized oil-powered eVTOL UAV  
Powerful performance, overall enhancement

# QP539 eVTOL UAV

QP539 is a 35KG medium-sized eVTOL UAV flight platform, which takes into account the weight, flight performance and load capacity of the UAV.

QP539 includes gasoline version and electric version. The gasoline version has an ultra-long hovering range (the maximum single flight range under 3KG load can reach 900KM), and the electric version is easy to maintain and has stronger maneuverability (the maximum single flight range under 5KG load can reach 270KM).

## Powerful flight performance

Oil/electric power  
Speed range: 80~145 km/h



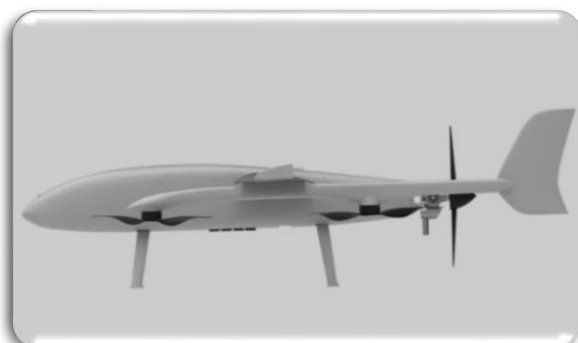
## Ultra-long flight range

Gasoline:900KM@3KG  
Electric:270KM@5KG



## Complex environment operation

-20°C~45°C operating temperature  
IPX4 protection



## Super load capacity

Gasoline 10~20KG (including fuel)  
Electric 5~10KG



## long distance datalink

160KM Automatic  
tracking datalink



## Full platform GCS

Desktop/handheld UAV GCS  
Gimbal GCS/Cloud system






# UAV parameters

## QP539



full length	2.4m
<b>Wingspan</b>	3.9m
Maximum payload weight	Gasoline Version 10~20kg (with fuel) Electric 5~10kg
<b>Maximum takeoff weight</b>	35kg
power system	Engine/Brushless Motor
Maximum range	Gasoline Version 900km@3kg Electric Version 270km@5kg (Affected by environmental factors)
<b>Flight speed</b>	Speed range 80~145km/h Cruising speed 90km/h
Wind resistance	Multi-rotor≤LV5; fixed-wing≤lv6
<b>Practical ceiling</b>	3500m
Operating temperature	-20°C~45°C
<b>Take-off and landing mode</b>	Auto Vertical Take-Off and Landing
RTK Horizontal positioning accuracy	1cm+1ppm
<b>RTK Vertical positioning accuracy</b>	2cm
Package Size	2250*680*600mm
Protection level	IPX4

# Gimbal parameters

model			
	PG323	PG333T	PG343TL
lens	Visible/wide	visible /infrared/wide	visible /infrared/wide/laser

## Zoom Lens Parameters

Real time video streaming	1920×1080
Lens	6.5mm-162mm
horizontal field of view	58.1°-2.3°
Zoom	Optical 30x, digital 12x
Transparent fog	Electron mist transmission

## Thermal imaging lens parameters

Detector type	Uncooled vanadium oxide infrared focal plane detector
Pixel size	640×512
Focal length	35mm
field of view	12.5°×10°
Infrared mode	Black/White/rainbow

## Wide angle lens parameters

Pixel size	1920×1080
Focal length	3.14mm
horizontal field of view	86°
vertical field of view	54.4°

## Thermal imaging lens parameters

Range	5~2000m
Accuracy	±1m
frequency	1~4Hz
Laser wavelength	905nm